

WASHINGTON CONSTRUCTION
GYA POND EXCAVATION
1980 - 1985
Gypsum Input DATA
1979 -

1985 GYPSUM PLACEMENT SUMMARY

GyP Ponds

<u>EXCAVATION LOCATION</u>	<u>DESTINATION</u>	633 LONDS	651 LONDS	633@32 Lcy	633@155 CCY	<u>EXCAVATION PERIOD</u>
<u>#3W</u>	<u>#3E</u>	3898	0	124736	60419	20 JUN - 2 JULY
	<u>#3W</u>	<u>1327</u>	<u>0</u>	<u>42464</u>	<u>20569</u>	<u>30 SEP - 2 OCT</u>
TOTALS :	—	5225	0.	167200	80988	—
<u>#2W, EXP</u>	<u>#1 GyP (old cooling pond) widowing</u>	619	4085	183208	83124	20-26 JUN 19 AUG - 27 SEPT
	<u>#1 GyP W. Bench</u>	<u>1172</u>	<u>0</u>	<u>37504</u>	<u>18166</u>	<u>4-13 SEPT</u>
TOTALS :	—	1791	4085	220712	101290	—
<u>#2 GyP</u>	<u>#1 GyP (widowing)</u>	1756	0	56192	27218	16-27 SEPT
	<u>#2 GyP</u>	<u>478</u>	<u>0</u>	<u>15296</u>	<u>7409</u>	<u>3-4 OCT</u>
TOTALS :	—	2234	0	71488	34627	—
TOTAL GyP MOVED		9250	4085	Lcy	CCY	
				459400	216905	

1985 CONSTRUCTION SEASON

	S	M	T	W	T	F	S
APRIL	21	22	23	24	25	26	27
	28	29	30	1	2	3	4
				COOLING POND STRIPPING			
MAY	5	6	7	8	9	10	11
				COOLING POND STRIPPING	RAINED OUT		
JUNE	12	13	14	15	16	17	18
				COOLING POND DIKE CONST			
	19	20	21	22	23	24	25
				COOLING POND DIKE CONST			
JULY	26	27	28	29	30	31	1
				COOLING POND DIKE CONST	RAINED OUT		
	2	3	4	5	6	7	8
				COOLING POND DIKE CONST			
	9	10	11	12	13	14	15
				COOLING POND DIKE CONST			
AUGUST	16	17	18	19	20	21	22
				COOLING POND DIKE CONST	#3 GYP		
					#1 GYP #2 GYP #3 GYP		
	23	24	25	26	27	28	29
				#3 GYP EAST PANES			
				#1 GYP #2 GYP #3 GYP			
	30	1	2	3	4	5	6
				#4 TP STRIPPING	HOLIDAY	NO WORK	
	7	8	9	10	11	12	13
				#4 TP STRIPPING			
	14	15	16	17	18	19	20
				#4 TP DIKE CONST			
	21	22	23	24	25	26	27
				#4 TP DIKE			
	28	29	30	31	1	2	3
				#4 TP DIKE			
	4	5	6	7	8	9	10
				#4 TP DIKE			
	11	12	13	14	15	16	17
				#4 TP DIKE			
	18	19	20	21	22	23	24
				#1 GYP WIDENING			
	25	26	27	28	29	30	31
				#1 GYP WIDENING			

WK #	S	M	T	W	T	F	S
1							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
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1							
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22							
23							
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25							
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29							
30							
31							

AS PERFORMED

\$	9-HR SHIFTS	START	CMPL
74536.58	1.	C.P. SITE PREP	1 MAY - 13 MAY
326,064.85	2.	C.P. DIKE CONST	13 MAY - 19 JUN
11,505.19	3.	#3 GYP EAST	19 JUN - 2 JULY
139,431.18	4.	#4 SITE PREP	13 JUN - 20 JULY
37,693.99	5.	#4 DIKE CONST	15 JULY - 16 AUG
69,909.50	6.	#4 STOCKPILING	13 JULY - 16 AUG
262,102.05	7.	#1 GYP	20 JUN - 26 JUN
28,621.17	8.	#3 W	19 AUG - 27 SEP
11,645.61	9.	#2	3 OCT - 4 OCT
239,472.1	10.	C.P. MISC (FINISH)	- 26 OCT - 6 OCT

WASHINGTON CONSTRUCTION

1985

New Cooling Pond PO# 64850

<u>Month</u>	<u>STRIPPING</u>	<u>FILL</u>	<u>FINISHING (Floor Prep & PIPING)</u>	<u>TOTAL</u>
MAY	56,207.52	148,473.87		209,681.39
JUNE	2777.87	177,590.98		180,368.85
JULY	13626.92			13626.92
AUG	1984.27		5806.61	7,790.88
SEPT			2399.62 PIPING 8778.10	11,177.72
OCT			PIPING 6962.88	6,962.88
TOTALS	\$ 74596.58	\$ 326064.85	\$ 23947.21	\$ 424608.64

CONSTRUCTION DATADIKE VOLUME: 205415 CCY CCY 1.59

LOADS	HRS	CYCLES TIME	CCY	CCY /LOAD
633	821	103	7.53	13547
651	9575	1102	6.91	191868

WASHINGTON & CONSTRUCTION
GYP POND CONSTRUCTION

1985

PO # 64849

<u>MONTH</u>	<u>WORK</u>	<u>\$</u>	<u>SCRAPERS</u>	<u>LHD COUNT</u>	<u>CYCLE TIME</u>	<u>YARDS CCY</u>	<u>\$/CCY</u>
JUNO	#3 GYP EAST	90,804.93	633	3176	7.48	49228	1.84
JULY	#3 GYP EAST	20,700.26	633	722	8.52	11191	1.85
SEPT	#3 GYP WEST	9,505.62	633	456	6.38	2068	1.34
OCT	#3 GYP WEST	19,115.55	633	871	6.79	13501	1.42
OCT	#2 GYP	11,645.61	633	478	6.65	7409	1.57

TOTAL \$ 151,771.97

ALL EXCAVATED MATERIAL FOR #3 GYP CONST. CAME FROM #3 W

<u>SUMMARY</u>	<u>LHDS</u>	<u>@15.5 CCY</u>	<u>@32 CCY</u>	<u>#3E CYCLE TIME TO #3W</u>
#3W	5225	80988	167200	(478A) 7.67 (477B) 6.65

1985

WASHINGTON CONSTRUCTION
CONVERSION OF COOLING POND TO GYP POND
(NO. 1 GYP POND)

P O # 66224

Month	\$	651 SCRAPERS		633 SCRAPERS			
		LOAD COUNT	HRS.	LOADS	HRS.	LOADS	HRS.
JUNE	30983.88	1096	121				
JULY	6174.52	229	24				
AUGUST	80781.31	2842	312				
SEPTEMBER	144162.34	418	58½	1172	172	619	81
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$ 262,102.05	4085 (7.57)	515½	1172 (8.81)	172	619 (7.65)	81
		FM W.GYP TO COOLING POND WIDENING	TO WEST RAMP			FM #2 GYP TO COOLING POND WIDENING	

Jun, July & Aug \$ 117,939.71

$$\text{CCY} \quad 3667 \times 18 = 66,006$$

$$\$ 1.79/\text{CCY}$$

C.T. 7.48 MIN 651 SCRAPERS

$$\begin{aligned} \text{CCY} \quad 4085 \times 18 &= 73,530 \\ 3547 \times 15.5 &= \underline{\underline{54,979}} \\ &128,509 \end{aligned}$$

$$\frac{\$ 262,102.05}{128,509} = \$ 2.04/\text{CCY}$$

# EQUIPMENT	WEEK 2 WASHING CONSTRUCTION						WEEK 3 WASHING CONSTRUCTION						P# #64849	SEPT 1985
	M	T	W	T	F	S	M	T	W	T	F	S		
	23	24	25	26	27		30							
11-8 Pickup							10							
317 C-14 PATROL							8							
198/197 TO-25 DOZER							1/2							
148 DOZER														
161 161 RT DOZER							10							
7640 BUS COMPACTOR							10							
57-1 WATER TRUCK														
424 633 SCRAPER							8 1/2							
425 "							10							
426 "							10							
433 "							10							
434 "							10							
444 651 SCRAPER														
451 "														
453 "														
454 "														
472 "														
473 "														
474 "														
SCRAPER HOS 1/2"							48 1/2							
LOAD COUNT 633							436							
CYCLE TIME 633							6.38							
LEADMAN							8 1/3							
OPERATORS							6 1/2							

→ TOTAL PER SEPTEMBER

905.62

7088
1.21

\$

WEEKS
1/3

FH0029067

OCTOBER 1985

WASHINGTON CONSTRUCTION

PO#64849
WE#25

Oct 1985

# EQUIPMENT	WEEKLY				WEEKLY							
	M	T	W	T	F	S	M	T	W	T	F	S
11-8 PICKUP		1	2	3	4		7	8	9	10	11	

11-8 PICKUP		10	10	2	10							
317 C-14 PATROL		10	7½	2	7							
198/177 T0-25 DOZER		2/4	3/5									
148 D-9 DOZER												
161 161 RT DOZER		10	10		9							
640 E-5 COMPACTORS		10	10		9							
57-1 WATER TRUCK												
424 633 SCRAPER		10	9	1	6							
425 "		9½	10	2	10							
426 "		10	10	1	10							
433 "		10	10	1	10							
434 "		10	10	2	10							

A14 651 SCRAPER

451	"
453	"
454	"
472	"
473	"
474	"

SCRAPER HRS 633

LAND COUNT 633

CYCLE TIME 633

#3W → #2

49½	49	7	46
47½	399	84	394

LOADING

8/3	8/3	1	8/3
67/16	60/16	5/10	64/15

OPERATIONS

WE #25
TOTALS
40266178

\$

9422.91	9290.31	
9892.64	1955.30	(30,761.16)

MATERIALS

7316	6185	1302	6107	20910
127	155	150	150	107

1/1985

WASHINGTON - CLOUDING POND

1/14/1985

Wk#4

Wk#5

#	20	21	22	23	24	25	28	29	30	31	
118 Pickup	9	9	9	9	9	8½	9	9	9	9	
317 C-14 PATROL	9	8	9	9	9	9	9	3½	9	9	
185/181 TD-25 Dumper		/3		/9				1½			
148 D-9 Dumper	9	9	9	9	8	9	9	9	9	9	
161 RT Dumper	9	9	9	9	9	8½	9	9	9	9	
637/647 Pull Thru Foot											
610/640 Bus Compactors	9/9	9/9	9/9	9/9	9/9	8½	9/9	9/9	9/9	9/9	
WTR TK		4									
424 633 SCRAPERS	4						①	①			
425 "							③	②			
426 "									②		
433 "							4	9	①	9	
434 "	(9)	(8½)	(9)	(9)	(9)	(9)	(4)	(9)	(9)	(9)	
451 651 SCRAPERS	9 ②	8½	9	9	9	4	9 ②	9	9	9	
453 "	9	9	9	5	5			9	9	9	
454 "	5	9	9	9	9	2½	9	9	9	9	
472 "			4	9	8½	3½	9	1	9	9	
474 "	9	9	9	9	9	8½	9	6			
444 "	(5)	(5)	(5)	(5)	(5)	(5)	8	3			
LONO COUNT 633	36/36	36/0	34/0	31/0	35/8	26/8	37/2	31/59	33/30	34/64	106/213
CYCLE TIME 633	5.98	5.57	6.19	6.19	6.09	7.51	5.82	6.19	6.19	6.09	7.21
	6.67	5.57	6.19	6.19	6.09	7.51	5.82	6.19	6.19	6.09	7.21
								7.33	8.44	7.21	
LENMAN	8/2	8/2	8/2	8/2	8/2	8/2	8/2	8/2	8/2	8/2	
OPERATORS	8/10	7/9	7/9	7/9	8/10	8/10	8/10	8/10	8/10	8/10	
WTR TK	4/0										
FULL	9909.98	10301.52	10111.66	10111.66	(61807.96)	11039.62	11596.93	43364.26			
STC/P	1239.97	10299.06	9989.20	10276.64	(1239.97)	11439.54	11229.17				
X-RANGE	9261	10422	9423	8870	9717	7206	(54399)	14,044	9533	10,449	10,452
\$/YD	1.07	0.99	1.10	1.19	1.13	1.43	1.14	1.11	1.20	1.11	1.08
											1.17

MONTLY SCRAPER SUMMARY
 LABOR HRS CIRCLE CCY GRS
 633 681 80 7.05 11,237 827
 651 4812 492½ 6.30 113,724
 FRM THIS DATE THRU 01 95,139

COST BREAKDOWN
 BREAKING: \$1886.11
 ROCK HILL 4321.41
 TOTAL 56207.52
 FILL: 146208.73
 TAK: 939.08
 LATH 778.67
 651 RENTAL \$47.39
 TOTAL 148473.87
 CCY $\frac{148473.87}{124961} = 1.19$
 $\frac{148473.87}{95139} = 1.56$
 95,139

June 1985

WASHINGTON C. TRACTION

Po 64850

NE 1985

# EQUIPMENT	COOLING POND								WATER TOWER						
	5 1	3 2	4 3	WATER 5	6 4	7 5	8 6	10 7	11 8	WATER 12 9	13 10	14 11	15 12		
11-B PICKUP	6	9	9	4	9	9	9	9	9	9	9	9	9	9	9
317 C-14 PATROL	4 $\frac{1}{2}$	7	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4	3 $\frac{1}{2}$	9	7	8 $\frac{1}{2}$	3	7	9	9		
185/118-1 D-25 DOZER	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{6}$	$\frac{1}{2}$				
148 D-9 DOZER	4 $\frac{1}{2}$	9	9	9	9	9	9	9	9	9	9	9	9	9	9
161 RT DOZER	3 $\frac{1}{2}$	9	9	9	9	9	9	9	9	9	9	9	9	9	9
610/640 Bus compressors	$\frac{1}{6}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$
57-1 WATER TK												5	5	5	
424 633 SCRAPER															
425 "															
426 "															
433 "															
434 "	1 $\frac{1}{2}$	2	1 $\frac{1}{2}$					3 $\frac{1}{2}$	4	3 $\frac{1}{2}$	5 $\frac{1}{2}$	3 $\frac{1}{2}$			
444 651 SCRAPER	14	4	3	3	3	3	3	14	15	14	14	14	14	14	14
451 "	3 $\frac{1}{2}$	9	9	9	9	9	9	9	9	9	9	9	9	9	9
453 "	3 $\frac{1}{2}$	9	9	9	5	3		7	9	2	8 $\frac{1}{2}$	9			
454 "	3 $\frac{1}{2}$	8	9	9	9	9	9	9	9	8 $\frac{1}{2}$	9	8 $\frac{1}{2}$	9		
472 "	3 $\frac{1}{2}$	8	9	6	9	9	9	9	9	9	8 $\frac{1}{2}$	9	8 $\frac{1}{2}$	9	
473 "	5	9		4	6	9		8	2	3 $\frac{1}{2}$	9	5 $\frac{1}{2}$			
474 "				9	9	9	9	6	9	9	9	9	9	9	9
WAD COUNT 651/623	110/7	40/17	40/11	37/0	38/0	34/0	34/0	149/26	354/0	346/4	343/22	387/36	344/24	[2013/112]	
CYCLE TIME 651/633	7.69/12.86	6.60/7.66	6.55/8.8	7.9/0	7.0/0	7.0/0	7.0/0	7.0/0	7.63/0	7.63/250	7.26/955	8.05/9.17	7.64/8.75	[7.94/8.84]	
LEADERMAN	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
operators	71/10	71/10	60/10	60/10	60/10	60/10	60/10	71/10	80/10	71/10	65/10	60/10	60/10	71/10	71/10

FH0029071	\$537.43	11502.51	11378.74	11573.86	12279.77 (15301.17)	11320.43	11422.76	11807.30	12667.10	\$10269.07	Total \$ 145,570.24			
YARDAGE 1/10 ³	3086	11162	10982	10071	10267	9423	10098	6508	9852	9558	9408	9624	8343	9684
	1.74	1.02	1.05	1.15	1.12	1.23	1.22	1.16	1.15	1.20	1.22	1.23	1.38	1.31

JUNI 1985

WASHINGTON CONSTRUCTION
COOLING POND

Po 64850

JUNE 1985

FH0029072

July 1985

WASHINGTON CONSTRUCTION
COOLING POND

Po# 64850

July 1985

# Equipment	Wk# 10			Wk# 11				Wk# 12				Wk# 13			Wk# 14		
	1	2	3	8	9	10	11	12	15	16	17	18	26	30	31		
11-8 PICKUP						2	2									7	
317 C-14 PATROL						6	4									2	
165/18-1 TD-25 DOZER Doseé (D-6) Dozer	9			9	9	9	9	9				4	9	7	3	0-	5½
148 D-9 Dozer																8½	
161 161 RT Dozer																7½	1
614/640 825 COMPACTOR																	
57-1 WATER TRUCK																	
424 653 SCRAPER																	
425 "																	
426 "																	
427 "																	
428 "																	
429 "																	
430 "																	
431 "																	
432 "																	
433 "																	
434 "																	
444 651 SCRAPER																	
451 "																	
452 "																	
453 "																	
454 "																	
SCRAPED HRS. 65/63																9½	
LOAD COUNT 65/63																7½	
CYCLE TIME 65/63																7½	
LEDDERS																	
OPERATORS	8%	8%	8%	13½	12%	8%			3%	8%	8%	3%	3%	11%	8%	5½	

\$	24784	24784	24784	130482	113889	33787	57499	575740
X20000						24784	24604	53311
\$/M3	(47184)				(468253)		(1659080)	

(1329.93) Total cost
887.13 442.80 1329.93
% /
LABOR OPERATOR LABOR

7790.88 Total
186.61 S806.61
1329.93 1329.93
11.11 11.11
493.23 493.23

August summary
Total 7790.88
186.61 186.61
1329.93 1329.93
11.11 11.11
493.23 493.23

Period Period Period
4 4 4
6 6 6
7 7 7
2 2 2
2 2 2
3 3 3
6 6 6
7 7 7
4 4 4

5861911

#	5	6	7	8	9	10	11	12	13	14	15	16	17
11-8	Pleasant												
317	Phoebe												
57-1	White TK												
137-1	0355 00262 (09)												
148	049 00262												
161	RT 00262												
118-1	TD-25 00262												
127-1	0655 00262 (09)												
610	SGS Roller												
620	SGS Router												
LA8042													
L610MIN													
OPERADES													
Total cost													
251.57 246.66													
(493.23)													
161.11													
%													
%													

Aug 1985

Supplicat Equipment

Circuit Breaker

Whisker) Control Circuit

Post #64850

Aug 1985

SEPT 1985

WEEK #20

WASHINGTON CONSTRUCTION

COLUMBIA
PO#64850

WEEK #21

SEPT
1985

# EQUIPMENT	WEEK #20					WEEK #21						
	M	T	W	T	F	S	M	T	W	T	F	S
	9	10	11	12	13		16	17	18	19	20	

11-8 Pickup		2	2									
317 C-14 PAILER	3	6	5				2			2		
198/190 TD-25 DOZER									2%			

~~161 RT DOZER~~

161 161 RT DOZER/DLSE	3	1/1										
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610/160 E25 CUMMINS

ST-1 WATER TRUCK

424 655 SCRAPER

425 "

426 "

433 "

434 "

444 651 SCRAPER

451 "

453 "

454 "

472 "

473 "

474 "

SCRAPER HOS 65/63

LOAD COUNT 65/63

CYCLE TIME 65/63

LOADMAN

2/1 7/0 2/0

OPERATORS

2/1 0/1 7/0

Punch Hours

\$

251.47 00292
63053 (1684.92)

WEEK #20

TOTAL

16111 23117

16111 (553.59)

WEEK #21

TOTAL

SEPT 1985 WK#22 WASHINGTON CONSTRUCTION

COUNTS
PO#64950

SEPT 1985

	M	T	W	T	F	S	M	T	W	T	F	S
	23	24	25	26	27	30						

# EQUIPMENT	11-8	PICKUP	2	2	2							
	317	C-14 PATROL	3	3	2	2						
	108/443	70-25 DOZER	1/2	1/3	1/8	1/3						

~~108 - 20-25~~

161 161 RT DOZER

610/640 825 COMPACTORS

57-1 WATER TRUCK

424. 633 SCRAPER

425 " "

426 " "

433 " "

434 " "

440 651 SCRAPER

SCRAPE HRS. 63/633

LOAD COUNT 63/633

CYCLE TIME 63/633

TRUCK FOR PIPE
NEAR EXIST. SIDE EXIST. C.P.
CONNECT RPT TO PLANE

LODGE

OPERATORS

%	10%	23%	23%	12%	9%	%
---	-----	-----	-----	-----	----	---

\$

3004.20 1586.93
10.78 2831.80 1264.39 (8778.10) 164.11

1420.65

\$1.33

WK#
SUMMARY

19 2-6 NONE

20 9-13 1684.92

21 16-20 553.59

22 23-26 8778.10 (11016.61)

23 30TH 161.11

11177.72

OCTOBER 1985

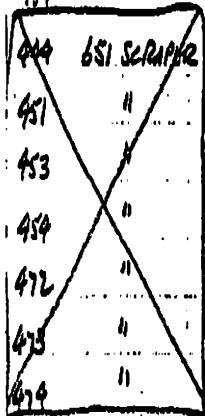
WEEK #23 WASHINGTON CONSTRUCTION

PO 64850

OCT 1985

# Equipment	M	T	W	T	F	S	M	T	W	T	F	S
	1	2	3	4			7	8	9	10	11	

11-8	PICKUP				8							
317	C-14 PULL				2							
188	TO-25 DOZER				%							
161	161 RT DOZER				8							
640	825 COMPACTOR											
57-1	WATER TRUCK											
424	633 SCRAPER				5							
425	"				8							
426	"				9							
433	"				9							
434	"				8							

SCRAPER HRS $\frac{4}{3}$

39

LOAD COUNT $\frac{4}{3}$

186

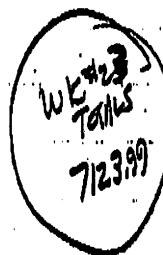
CYCLE TIME $\frac{6}{3}$

12.58

LOADS/HOUR

 $\frac{7}{2}$

OPERATORS

 $\frac{53}{2}$ 

6962.88

2083

247

FH0029078

\$4

M120165

 $\frac{1}{1.3}$

JUNE 1985

WASHINGTON CONSTRUCTION CO., C.A. TO GPR PEND

POT# 66224

JUNE

1985

WT#8

WT#9

EQUIPMENT

T F S M T W T F S

11-8 Pickup

2 1/2 4 1/2 5 4 1/2

317 C-14 PATROL

185/100-1 TD-25 DZ262

D-9 DZ262 #137-1
DZ55A 0.91/4 1/4
3 1/9 3 1/9

20-22 17972.67

161 161 RT DZ262

610/160 215 COMPACTOR

57-1 WATER TRUCK

424 633 SCRAPER

" "

426 " "

423 " "

424 " "

444 651 SCRAPER

4 9

S103 # of hours no claim date

451 " "

453 " "

454 " "

472 " "

473 " "

474 " "

SCRAPER HRS 61/63

L=Loose
C=Ccy

CYCLE TIME 65/63

1/0	2/0	27/0	(5)	2/0	2/0	(54)
133/0	20/0	20/0	(592)	246/0	258/0	(504)
70/0	60/0	73/0	(67)	63/0	62/0	(648)

LOADERS

OPERATORS

3/1	4/1	5/1	4/1	5/1
3 1/4	3 1/5	3 1/5	3 1/5	4 1/5

100%

CONVERSION OF
CARRIERS PEND TO GPR PEND

\$
W20466 Ccy @ 18
\$ 1/103

507295	703666 (17972.67)	64083	661038 (13011.21)
5508L	7884L	7920L	21372L
0.92	0.74	0.89	0.84
			0.72

July 1985

CAB C.R. TO
GUP AND RT#66224

July 1985

#	Equipment	July 1985			Washington Construction			CAB C.R. TO GUP AND RT#66224			
		M	T	W	T	F	S	M	T	W	F
11-8	PICKUP	22	23	24	25	26	27				
317	C-14 PITCH										
10/18-1	To-25 Dzeré										
148	D-9 Dzeré	11.01	11.01	11.01	11.01	11.01	11.01				
161	RT Dzeré										
61/10	ERS CUMBERS										
57-1	WATER TRUCK										
424	633 SCRAPER										
425	"										
426	"										
433	"										
434	"										
451	651 SCRAPER										
453	"										
454	"										
472	"										
473	"										
474	"										
	SCRAPER HRS 61/33	240	229	229	229	229	229				
	LAND COUNT 13/633	13/633	13/633	13/633	13/633	13/633	13/633				
	CREW TIME 61/33	61/33	61/33	61/33	61/33	61/33	61/33				
	Labor and operations	8/24	8/24	8/24	8/24	8/24	8/24				
	\$	40/1	40/1	40/1	40/1	40/1	40/1				

Conversion Period To G.P Period
Conversion of

AUG 1985

SUPPORT EQUIPMENT

WK#17

WEEKLY HOURS

IN CONSTRUCTION

CONC GP
TO EXP POND
PK#66224

AUG 1985

#	DESCRIPTION	WK#17						WK#18						AUGUST
		M	T	W	T	F	S	M	T	W	T	F	S	
19	20	21	22	23	24		26	27	28	29	30	31		
11-8	PICKUP	8	9	9	9	9		6	7	7	7	7		
317	PATROL		1	1	9	9		2	2	3	5	9		
57-1	WATER TIC	4	1	4	8	7½		3	6	2	3	6		
137-1	0355 DOZER (Dg) ^{Dg} #198	9	9	9	9	7		5½	9	9	9	9		
148	DOZER	10	9	9	9	9		9	9	9	9	9		
161	RT DOZER					1½		3½	2	6				
118-1	TD-25 DOZER												WK#17	38192.87
127-1	D655 DOZER (Dg)												WK#18	42588.44
610	825 ROLLER												TOTAL	80781.31
640	825 ROLLER													

LABOR

LEIDMAN
OPERATORS $\frac{1}{3}$ $\frac{4}{3}$ $\frac{1}{2}$ $\frac{8}{2}$ $\frac{8}{6}$
 $\frac{3}{7}$ $\frac{4}{6}$ $\frac{4}{6}$ $\frac{6}{7}$ $\frac{54}{6}$ $\frac{1}{3}$ $\frac{6}{2}$ $\frac{6}{2}$ $\frac{4}{2}$ $\frac{6}{2}$
 $\frac{54}{6}$ $\frac{57}{6}$ $\frac{56}{7}$ $\frac{57}{6}$ $\frac{62}{7}$

TOTAL COST

685233 7026.78 924409 7866.99

7161.43 8723.07 9275.94
8788.04 8639.96

TOTAL 38192.87

TOTAL 42588.44

#	COST	WEEK 19							WEEK 20							CON. COOLING POND TO SUMP POND POND 6224		SET 1985
		M	T	W	T	F	S		M	T	W	T	F	S				
11-8	PICKUP		9	9	9	9			9	7	7	8	10					
317	PATROL		7	7	9	7	7		6	2	4		10					
57-1	WATER TRK		2	7	6	7					5½							
137-1	D355 Dozer (D9)																	
148	D9 Dozer		9	9	9	9			9	9	9	9						
161	RT Dozer											2½						
#177 ⁺¹⁹⁸	TD-25 Dozer		9	9	9	9	5½		7	4	¾	8/8	9/3					
127-1	D65E Dozer (D6)			8		3				2								
610	Big Roller																	
610	Big Rower			3	9	9			9	9	6		5½					
610AR																		
L610AR		8½	8½	8½	8½				8½	6½	6½	8½	8½					
OPERATORS		5½	6½	6½	5½				5½	4½	4½	6½	6½					
TOTAL COST		8742.74	8459.48						7655.24	7862.00	703.00	2064.82	8322.67					
		9813.67																
		(35484.87)							(33007.73)									

SEPT 1985

Wk#21 WASHINGTON CONSTRUCTION

CONV CONGNG PWD
TO GYP PWD
PO #66224

SEPT 1985

# Equipment	Wk#21						Wk#22						wk#	SEPT SUMMARY
	M	T	W	T	F	S	M	T	W	T	F	S		
11-8 PICKUP	9	9	9	8	9		9	7	7	7	7	9		
317 C-14 PATROL	9	7	9		2		9	5	5½	7	7			
198/177 TD-25 DOZER	2½	1½	1½	8½	9½		9½	2½	9½	3½	3½	9½		
148 D-9 DOZER	3												wk#	
161 161 RT DOZER	8	9	9		9		8	1	4½	5½			19 26	35484.87
61½/610 815 COMPACTORS	1½	1½	1½								4		20 9-3	33007.73
571 WATER TRUCK	4½	5											21 16-20	39206.17 10788.7
414 633 SCRAPER	9	9	9		8½		9	9	3	6½	5		22 23-27	36463.57
425 "	9	9	9		9		9	2	3	5½	5			
426 "	9	9	9		9		9	2		5½	5			144162.34
433 "	9	9	8½		9		9	9	9	9	9			
434 "	8	9	9		7½		9	8½	9	9	9			
449 651 SCRAPER														
451 "														
453 "														
454 "														
472 "														
473 "														
474 "														
SCALAR HRS 11-8	46	8½	57	46½	43		45	30½	24	35½				All TO WICKING
LENCO COUNT 11-83	327	43	247	321			31½	27½	11½	247	131			#2 W.GYP
CYCLO TIME 11-83	8.07	11.6	10.0	8.60										GYP
LEDDOWN OPERATORS	67½	75½	75½	16½	6½		70½	39½	37½	49½	56½			H/R 230½ 81
														LUMS 1756 619
														Cyclo 7.88 7.85
\$	8976.94	9424.20	2402.30	8851.95	(39206.17)	Wk#21 TOTAL	9838.54	6101.54	5540.42	7214.18	7768.89			
%AGE	9850.78													(36463.57)

1984

1984 LOOSE VOLUME EXCAVATED

GyP Pounds

LOCATION	633 LOTS	567 LOTS	LCY	BUDGETED 3 OCT 83	EXCAVATION PERIOD
#2	23,695	5329*	982,058	380,000	27 JUN - 3 JULY 11 OCT - 23 OCT
#2 DECENT	675	0	21,600	130,000	4 JUN - 19 JULY
#3 WEST	2847	88	94800	300,000	1 MAY - 13 JULY
#3 EAST	5211	0	166752	NONE	11 OCT - 5 NOV
#2 WEXP	1653	4183*	228,502	NONE	6 JUN - 3 JULY
	34081	9600	1,493,792	810,000	

* INCLUDES PERIMETER DIKE MATERIAL

FH0029086

1984 EXCAVATION DATA SUMMARY

	#2 GYP	#3 GYP	633 SCRAPERS WEST	633 GYP EAST	#2 DECAT	#2 W.L.G.P.	657 SCRAPERS @ 20ccy/LOAD WEST	#3 GYP	#2 W.L.G.P.	SURG/60 CART VOL
#142 TAILINGS POND CONSTRUCTION										
JAN	615									(222,807)
FEB	2489									LAND COUNT 217,995
MAR	2202									
APR	3018									
MAY	463	122					441	88		
	SUB-TOTALS (8787)	(122)					(4130)	(88)		
#3 GYP WEST POND CONSTRUCTION										
APRIL	298									(274,650)
MAY	4656	524	53				771	521		
JUNE	2721	1483	571	1272			128	2341		
JULY	2805	768	51	381			300	1321		
	SUB-TOTAL (10480)	(2725)	(675)	(653)			(1199)	(4183)		
			Σ 15533 (233,000)					Σ 5302 (107640)		
OCT		252								
NOV		109								
		(361)								

#2 GYP POND CONSTRUCTION										
JULY	486									
AUG	393									
SEPT	461									
OCT	3098									
	SUB-TOTALS (4428)									

#3 GYP EAST POND CONSTRUCTION										
OCT		3357								
NOV		1488								
		5 LOADS TO #4TP TO COVER RECLAM PIPE 2 NOV								

TOTALS:	23695	2777	5211	675	1653	5329	88	4183	
15 CCY		4.				620 106580	1760	83660	
2 LCY	780,240	911.				642 223,818	3696	175686	

FH0029087

OCTOBER 84

**LAND COUNT
GYP POND EXCAVATION
ALL 633 SCRAPPERS**

OCTOBER 84

	FROM #2	NORTH Bound		FROM #3	#3E		YARDAGE TOTAL Ccy @ \$15.2/LHD
TO #2			TO #3W				
11	205			169		374	\$685 1.80
12	190			208		398	6050 1.60
13	347					347	\$274 1.66
						(1119)	(17009) (1.69)
15	325					325	9940 1.69
16	135				142	277	4210 1.67
17	365					365	5548 1.51
18	323					323	4910 1.75
19	304					304	4621 1.92
20	123		189			312	9742 1.92
						(1906)	(28971) (1.74)
22	312					312	4742 1.99
23	345					345	5244 1.69
24		124				398	6050 1.65
25			43			362	5302 1.59
26						347	5274 1.66
27						427	6491 1.55
						(2191)	(33303) (1.62)
29						507	7706 1.19
30			20			486	7387 1.40
31						498	7570 1.29
						(1491)	(22663) (1.79)
TOTALS	2974	124		252	3357	6707	101,996 1.61
@15.2/LHD ccy	45,205	1085		3830	51,026		

NOVEMBER 84

1		#4T.P	492	492
2		30	5	415
3		54		346
5		25		235
TOTALS		109	5	1488
				1602

FH0029088

Hauling DATA

GYP POND EXCAVATION LOCATION

AUGUST 1984

633 SCR.

DATE #2 POND

1	62
2	79
3	78
6	76
27	88

383

SEPTEMBER 1984

DATE #2 POND

12	51
13	167
14	148

17	47
19	48

461

HAULING DATA
GYP POND EXCAVATION LOCATION
JULY 1984

	633 SCRAPERS			657 SCRAPERS		
	#2 GYP	#3 GYP	#2 WEST. DENT	#2 WEST	#2 WEST	#2 GYP
1						
2		87		208		6045 2.76
3		79		173		6264 2.39
4						
5	227	80			132	6981 2.43
6	228	84			128	6984 2.34
7						(2624) 52.47
8						
9	167	82			134	6147 2.45
10	217	78			97	6171 2.56
11	237	82			128	7089 2.21
12	187	146			100	6939 2.24
13	242	50			122	6576 2.56 (32722) 52.40
14						
15						(768) SUB-TOTAL LOOSE 24576 YD ³ (15,234C-PT) COMP 11,059 YD ³
16	269				75	5385 2.73
17	291	X ⁴ INTO PILE 11AM 17 JULY			60 30	5485 2.39
18	265				109	5937 2.46
19	226		51			6783 2.63
20	249					5967 2.64 (30057) -89253-
21						
22						
23	105					1575 1.61
#2 CCAST	24	66				970 2.03
25	73					1095 2.56
26	73					1095 2.41
27	67					1005 2.05 (5760)
28						
29	-					
30	44					660 2.87
31	58					870 (1530) 2.15
TOT-3W	2805	768	51	381	1321	300
TOT #2	486					720
TOTALS	3291	768	-	381		1637

FH0029090

HAULING DATA
GYP POND EXCAVATION LOCATION
JUNE 1984

All To #3W

	633 SCRAPERS			657 SCRAPERS		
#	#2 GYP	#3 GYP WEST	#2 DECAT W. EXP	#2 W.EXP	#2 GYP	Coy Hauled % coy
1	227			100		5205 2.80
2						
3						
4	113	110	49	106		5988 2.19
5	119	112	54	108		6219 2.23
6		47	127	83		4104 3.40
7		50	140	67		4056 3.36
8			200	60		4080 3.02
9						S.T. 24497
10						
11			181	120		4875 2.85
12			200	116		5088 2.76
13		102	82	112		4776 2.93
14		51	167	113		5304 2.65
15	264		17	102		6051 2.52
16						S.T. 26094
17						
18	298			106		6378 2.56
19	70	224	90	90		7380 1.93
20		344		112		7176 2.04
21		382		92		7386 2.03
22	240			116		5688 2.67
23	230		54		128	6564 2.76
24						S.T. 40572
25	219		48	94		5697 2.85
26	173	177		136		7698 2.07
27	177	84		128		6219 2.66
28	250			124		5982 2.66
29	221		51	126		6348 2.48
30	120		48 85	130		6135 2.60
						S.T. 38079
	2721	1433	571 1272	2321	128	TOTAL 134397 YD ³
ALL USE YD ³	87,072	45,856	14,272 40,704	93,640	5120	

FH0029091

HAULING DATA
GYP POND EXCAVATION LOCATION
MAY 1984

	633 SCRAPERS			657 SCRAPERS		
	#	TP	DECANT	#	TP	WATER
1	76	122		20	GYP	
2						
3	187			70	TP	
4	87 GYP			45	TP	
5	70 TP					
6						
7	226			43 GYP		
8	198 TP			12 TP		
9	195 TP					
10	222			76 TP		
11	220			74 TP		
12				70 TP		
13				104 GYP		
14	246					
15	203			60 GYP		
16	208			38 TP		
17	200			102 GYP		
18	114	168		32 GYP		
19				56 TP		
20						
21	124	208			88 TP	
22	105	98				
23	108			98		
24	295			100		
25	228			102		
26	128	50	53			
27						
28						
29	282			115		
30	232			108		
31	218					
				104		
TP	463	122		441	88	
GYP	4656	524	53	771		
TOTALS	5119	641		1212		

FH0029092

4470
74844

1643

2018 (TP)
3018 (TP)

70	298 GPPRMS	30
74		22
79		27
77		92
92		52
78		42
68		32
		22
		12
		20
72	120	61
77	121	81
69	97	71
55	128	91
29	121	51
97	140	41
73	177	31
25	147	21
66	149	11
		01
		6
69	130	8
74	127	7
89	102	6
92	609	5
18	111	4
92	155	3
36	127	2
23	140	1
72		

657 SCRABLES

633 SCRABLES

APRIL 1984

GYP PARD EXCULTRU LECTRNU

HULLING DATA

Hauling Data
GYP POND EXCAVATION LOCATION
MARCH 1984

	#2 Snow	#3W Snow		#2 Snow	#3W-X #2YP
1	110			54	
2	92	48		38	11
3	71	81		22	29
4	99			58	
5	89	15		59	2
6	62	59		47	
7	106			76	
8	123			34	30 6
9	127			74	
10	48			26	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22	68.	26		50	
23	138			47	
24	120			23	
25	142			31	
26					
27	155			35	
28	169			36	
29	151			35	
30	168			39	
31	164			42	

2202 203 26 826 72 6

FILL

33030

14868

47898

FH0029094

Hauling Data
Gyp Pond Excavation Location

FEBRUARY 1984

	#2	WATER	Snow	633	#2	WATER	Snow	657
	ZTP	ZTP	ZTP		ZTP	ZTP	ZTP	
1	134							
2	128							
3	51				39			
4	67				56			
5								
6	111				69			
7	136				78			
8	131				82			
9	136				52	42		
10	109				68			
11	129				74			
12	123				49	54		
13	54	54				52	47	
14		230					130	
15		257					129	
16	74				37			
17								
18	122				66			
19	126				83			
20	132				37			
21	108				58			
22	13	181			6	92		
23	104				70			
24	128				80			
25	90	42			61			
26								
27	93				52			
28	85				66			
29	105				47			
TOTALS	2489	54	710		1220	148	398	
Fill	31335				21960			59295 (41224)

Hauling DATA
GYP POND EXCAVATION LOCATION

JANUARY 1984 (633 LOADS ALL FROM #2 GYP)

27 102

28 139

29 141

30 108

31 125

$$615 \times 15 = 9225$$

(SEPT 1983)

CONSTRUCTION. FILL SUMMARY SHEET 1983

	LOADS	SC. HRS.	INVECTED	\$/YD	COMPACTED YARDS
MARCH	650	96	47966.15	4.92	9750
APRIL	6691	732	201597.00	2.01	100365
MAY	6397	748	179472.15	1.87	95955
JUNE	8116	969	221144.41	1.82	121740
JULY	5930	730½	185156.48	2.08	88950
AUG	4481	494	126785.28	1.89	67215

TOTALS 32265 3769½ 962,121.47 1.99 483,975
CYCLE TIME 7.01 MIN

LOADS COMPACTED YARDAGE

I	WEST EXP (MVR & APR)	^{650 (96)} ^{1406 (144)} ^{190 (1)}	2246 (310)	33,690
II	WEST EXP (AUGUST)		2161 (200)	32,415
III	#3 WESTERN PANELS	WIDENING ^{909 (15)} ^{6207 (143)} ^{7442 (185)}	4376 (448) FILL 14558 (1703)	65640 > 284,010 218370
IV	#3 EAST	^{36 (1)} ^{4255 (502)} ^{1468 (193)}	5759 (700)	86385
V	#3 WEST RAMPS	^{638 (20)} ^{136 (18)}	776 (18)	11640
VI	#3 EAST RAMPS	^{(2) 1537 (209)} ^{241 (35)} ^{456 (52)}	2234 (271)	33510
VII	#2 NW PANEL SOUTH DIKE		155 (12)	2325
			32265 (3769½)	483975
	SUB OUT MATERIAL #3 SW TO #3 NW		74 (82)	Hauled Twice (1110)

*	EXCAVATION	LOADS	SC. HRS.	YARDS ³	COMPACTED
1	#3 EAST	23893	2759½	764,576	358395
2	#2 EAST	5897	784	188,704	88455
3	#2 NW	1927	180	61,664	28905
4	WEST EXP	548	46	17,536	8220

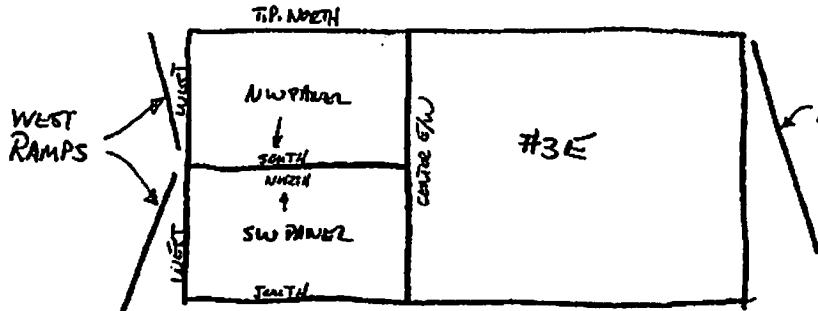
TOTALS 32265 3769½ 1,032,490 483975

* FOR EXACT PLACEMENT SEE EXCAVATION SUMMARY SHEET

FH0029097

EXCAVATION SUMMARY 5NEST 1983

NO. 3 GYPSUM POND



(ALL LOADS USING C633 SCR.)

23,893 LOADS

769,576 LOOSE YD³ (473.9 AC-FT)

358,395 COMPACTED YD³

2759 1/2 SCRAPER HRS

Avg. CYCLE TIME $\frac{2759\frac{1}{2}}{23893} = 6.93 \text{ MIN}$

TO	LOADS (SC. HRS)	DATE	
WEST EXP	447 (72)	APR	→ 447 (72)
NW PANEL WIDENING	216 (18) 266 (21) 338 (28)	APR APR APR	→ 6255 (720) (6.99)
NW PANEL	1968 (226) 3467 (408)	MAY JUN	→ 18934 (2151) (6.82)
SW PANEL WIDENING	922 (101) 1193 (120) 1441 (145)	APR APR APR	→ 11363 (1265) (6.68)
SW PANEL	909 (9) 2923 (229) 3975 (456)	APR MAY JUN	
PANEL SW/NW WEST DIKS	1316 (15) (7.16)	MAY	
WEST RAMPS	638 (8) 138 (18)	JUNE JULY	→ 776 (78) (7.58)
#3 EAST	36 (4) 3083 (359)	JUNE JULY	→ 311 (363) (6.99)
" EAST RAMP	617 (75)	JULY	→ 617 (75) (7.29)

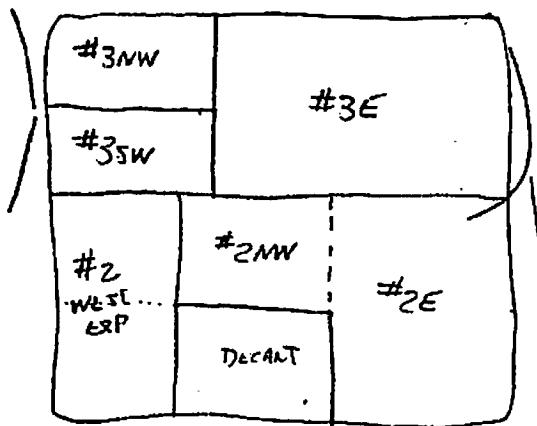
* COMPLETED EXCAVATION 20 JULY 83

(NOTE) 74 LOADS SLIPPED FROM SW TO NW WIDENING
NOT INCLUDED IN THESE LOAD COUNTS

EXCAVATION SUMMARY SHEET 1983

NO 2 GYP RND

ALL LOADS VIA C633 SCRAPERS



8372 LOTS

267,904 LOOSE YD³

125,580 COMPACTED YD³

1010 Hours

(SC. HRS)

FROM #2 ST	WEST EXP	650 ⁽⁹⁶⁾ 800 ⁽¹⁰³⁾ 190 ⁽²⁵⁾	MAR MAR MAY	1640 ⁽²²⁵⁾ (8.23)	LOOSE YD ³	CONCRETE YD ³
	#3 EAST	1172 ⁽¹⁰⁴⁾ 1468 ⁽¹⁹³⁾	JULY AUG	2610 ⁽³³⁷⁾ (7.66)		
	#3 EAST RAMP	920 ⁽¹³⁴⁾ 241 ⁽³⁵⁾ 456 ⁽³⁴⁾	JULY AUG AUG	1617 ⁽¹²³⁾ (8.27)		
FROM #2 NW	WEST EXP.	1613 ⁽¹⁵⁴⁾	AUG	1772 ⁽¹⁶⁸⁾ (5.69)	1927 ⁽¹⁸⁰⁾ (5.60)	61,664 29,905
	FM S. DIKE	159 ⁽¹⁴⁾	APR			
	SOUTH DIKE #2NW	155 ⁽¹²⁾	AUG	155 ⁽¹²⁾ (4.65)		
FROM W.EXP.	TO: WEST EXP.	548 ⁽⁴⁶⁾		548 ⁽⁴⁶⁾ 504		17,536 8220

FROM #2 NW	WEST EXP.	1613 ⁽¹⁵⁴⁾	AUG	1772 ⁽¹⁶⁸⁾ (5.69)	1927 ⁽¹⁸⁰⁾ (5.60)	61,664 29,905
	FM S. DIKE	159 ⁽¹⁴⁾	APR			

267,904 125,580

FH0029099

LOAD COUNT DATA 1983

		HAULED TO					
#2		#3 WIDENING	SW PANEL	WEST	NORTH	#3 NW PANEL	WIDENING
W. EXP	(102)	SOUTH	WEST	NORTH		SOUTH	WEST
						TOP	FILL
						NORTH	SW PENTER

MARCH

FROM
#2E
#2NW

650 (96)

APRIL (669) (732)

#2E	800 (103)
#2NW	159 (14)
#3E (5132)	447 (12)

922 (101 $\frac{1}{2}$)	1193 (128)	1441 (145)	216 (18)	266 (27 $\frac{1}{2}$)	338 (26)	909 (95)
--------------------------	------------	------------	----------	-------------------------	----------	----------

TOTAL SCRAPER HHS 543
TOTAL LOADS 5285

MAY (639) (748)

#2E	190 (25)
#3E (620) + SWAIT	74 (8 $\frac{1}{2}$)

<u>FILL SW PENTER</u>	<u>SUBAIT</u>	<u>FILL NW PANEL</u>	<u>WIDENING NORTH DICE</u>	<u>WEST DIKE SW PENTER</u>
2923 (339 $\frac{1}{2}$)	74	1968 (266 $\frac{1}{2}$)	74 (8 $\frac{1}{2}$)	1316 (157)

JUNE

8116 (46) → ALL FM #3E

3975 (956 $\frac{1}{2}$)	3467 (428 $\frac{1}{2}$)	638 (60)	#3 EAST (36 $\frac{1}{2}$)
---------------------------	---------------------------	----------	-----------------------------

JULY

#3E (3838) (452 $\frac{1}{2}$)	WEST RAMP 138 (18)
#2E (2092) (218)	EAST RAMP 617 (25)
TOTAL 5930 (730 $\frac{1}{2}$)	920 (34)

#3 EAST (359 $\frac{1}{2}$)
3083 (144)
1172 (44)

AUGUST (4481) (494)

#2E
#2NW
, EXP

<u>EXIT RAMP</u>	<u>CORNER</u>	<u>EXIT RAMP</u>	<u>#3 EAST</u>	<u>W. EXP.</u>	<u>SOUTH DICE #2NW</u>
241 (35)	456 (58)	1468 (113)	1613 (137)	548 (46)	155 (12)

1982 WASHINGTON CONSTRUCTION SUMMARY 1982

TAILINGS POND CONSTRUCTION 8 JULY - 31 AUG (42½ SHIFTS)

TOTAL HRS	LOADS	LOOSE VOL.	AVERAGE CYCLE TIME
(1301) 651 + 641 SCRAPERS	5621	224840	651+641 = 13.89 MIN/HR.
(515) 633 SCRAPERS	2042	65344	633 = 15.13
		> 290,184 YD ³	
		W: 127945 B: 126810	ALL FM #2 EAST
		SURVEYED VOLUME 127,393 YD ³	

TOTAL COST: \$426,923.85 (UNIT COST \$3.20/YD³ PLUS ROLLER & SUB-X CONTINGENCY
COST PER SHIFT \$10045.27

GYPSUM POND CONSTRUCTION 1 SEPT - 18 NOV (367 HR ÷ 8 = 45.875 SHIFTS)
NO WORKING SUNDAYS, WEDNESDAYS IN OPERATION

TOTAL HRS	LOADS	LOOSE VOL. YD ³	AVERAGE CYCLE TIME
(1113½) 651 + 641 SCRAPERS	8128	325120	8.19 MIN
(182) 633 SCRAPERS	1234	39488	8.85 min

W: 173,941 B: 161,750 (RUMBLE) 166,515 (ARITHMETIC)
SURVEYED VOLUME: 167,846 (ADJUSTED YD³ FOR DILUTION TO 168,444)

TOTAL COST: 335,094.84 (UNIT COST \$1.90/YD³ PLUS CONTINGENCY
\$7304.52 / SHIFT
ESTIMATED ITEM COST PER SHIFT \$6616.96

Lot No	Source	Loose Yardage	Compacted Yardage	Budgeted Loose Yardage
1513691	633 LOCATION	502,216	222,988	505,000
9941	326B #2 EAST	133,456	58,395	100,000
3330	8 #2 NW	15,120	6615	—
378	0 #2 WEST DIKE	4,000	1715	—
100	0 #3 ^{OUTSIDE} SOUTH DIKE	654,792	289,748	605,000
3749	3276 → 17025			
		SURVEYED: 295,239		

COMPACTION FACTOR: $\frac{295,239}{654,792} \times 100 = 45.09\%$

WASHINGTON CONSTRUCTION PART 5/16CT

12-29-81

SUMMER CONSTRUCTION 1981

SEE FOLDER
1981 EARTHWORK
COST SUMMARY

EQUIPMENT UTILIZED - 2 SHIFT OPERATION DAY - 9-HR NIGHT 8 $\frac{1}{2}$ -HR

5-SCRAPERS: 5-651's & EITHER 641 OR 633

1-D-9

1-D-8

D-6 HALF TIME

1-WATER TRUCK (100% JULY & AUG, 50% SEPT)

1-RT DOZER (100% GYP & #2TP) - SHARS. CATERPILLAR WITH 75^T ROLLER

1-E25 CATERPILLAR (100% TAILINGS POND, NO GYP)

1-PATROL

1-PICKUP (IN CONVERSATION WITH FOREMAN)

LABOR ALLOCATION @ 2 SHIFTS

11-OPERATORS

1-FOREMAN (NIGHT SHIFT)

1-LEAD MAN (DAY SHIFT)

TOTAL SHIFTS OPERATED : 126 (2 SHIFTS IN OCTOBER FOR
CLEANUP - NO GYP HAULED)

COST BREAKDOWN

SHIFTS HRS	<u>EQUIPMENT COST</u>		TOTAL COST	LABOR % OF TOTAL COST	COST PER SHIFT
	SHIFTS	HRS			
JULY 48 420	342,066.03	101,218.92	443,284.95	22.8	9235.10 10 OPERATORS
AUG 42 367.5	318,974.94	91,652.61	410,627.55	22.3	9776.85 10 OPERATORS
SEPT. 34 297.5	220,093.00	76,895.75	346,938.75	22.1	10204.08 11 OPERATORS
OCT 2 16	2478.50	820.13	3,298.63	24.8	1649.35 N.A.
TOTALS	933,612.47	270,536.41	1,204,148.88	22.47	9710.88 (124 HRS)

SHIFTS	LOAD COUNT	SWEVED YARDAGE	YD ³ /LOAD	\$/YD ³	TOTAL COST	\$/SHIFT	LOADS SHIFT	YD ³ SHIFT	CYCLE TIME	
									SHIFTS	MINUTES

#3GYP	51	13935	213454	15.318	2,322	495,762.98	9720.25	273	4185	9.61
#3T.P.	32	6022	117,695	19.544	2,650	311,890.84	9746.59	188	3678	13.95
#2T.P.	26	5272	90,130	17.096	2,860	257775.93	9914.46	203	3457	12.95
#1T.F*	13	1921	33450 ^(a)	17.413	3,485	115,899.78	8915.37	147	2573	17.76
1T.P.*	2	530	8550 ^(b)	16.132	2,672	22849.35	11424.68	265	4275	9.91

Tools	124	27680	463,279	16.737	3,008	1,204,148.88	9710.28	223	3736	11.76
1980	216		377,087		2,175	1,907,943.72	8932.61			

$$\text{CYCLE TIME: } \frac{\text{TOTAL SHIFTS} \times 17.5 \text{ HR}}{\text{TOTAL LOADS} \times 2 \text{ SHIFTS}} \times \frac{60 \text{ MIN}}{4 \text{ HR}} \times \frac{5 \text{ SCRAPERS}}{1 \text{ SCRAPER}} = \frac{\text{TOTAL SHIFTS} \times 262.5}{\text{TOTAL LOADS}}$$

*ADJUSTED ^(a) 17 YD³/LOAD
^(b) 8 YD³/LOAD COUNT

FH0029102

CAMPARISSON WASHINGTON CONSTRUCTION BID ESTIMATES FOR 1981
VERSUS ACTUAL T&M COSTS

WASHINGTON-BID

#3 GYP \$2.55/YD³

#3 TP \$3.06/YD³

#2 TP \$3.70/YD³

TD-25 DOZER CONTINGENCY FOR DIKING \$0.32/YD³

75T ROLLER \$0.34/YD³

CONSTRUCTION DATA

	#3 GYP	#3 TP	#2 TP	#1 TP
EMBANKMENT VOLUME	213454	117695	90,130	42000
CUBIC YARDS/SHIFT	4185	3678	3467	2573
TOTAL SHIFTS WORKED	51	32	26	15
CUBIC YARDS/NR	478	420	396	294
TD-25/D-8 & D-6) PRORATED HRS:	D-8 800HRS	D-6 400HRS		
	+ 329			
	+ 164.5			
TOOL PRORATED HRS	493.5	309.7	251.6	145.2
CONTINGENCY TOTAL YD ³	235,916	130,064	99,639	42,677
		508,296 YD ³	D-GOLLY	169432

ROLLER CONTINGENCY

TOTAL YD³

	73½	10½	56
	30,870	4,158	16,464
			51,492

COSTS

	\$/YD	YD ³	\$	ACTUAL T&M COSTS \$/YD
#3 GYP	2.55	X 213,454	= 544,307.70	495,732.98 2.322
#3 TP	3.06	X 117,695	= 360,146.70	311,890.84 2.650
#2 TP & #1TP	3.70	X 132,130	= 488,881.00	396,525.06 3.001
DIKING DOZER	0.32	X 508,296	= 162,654.72	162,654.72
75 Ton ROLLER	0.34	X 51,492	= 17,507.28	17,507.28
				162,654.72 17,507.28 180,161.99
TOTAL			1,573,497.40	1,204,148.88 2.599
			NET \$/YD = 3.396	(2.162)

NET SAVINGS: 369,348.52

VOLUME SUMMARY 1981 CONSTRUCTION

	TOTAL	WEST INTERSECTION	EAST INTERSECTION
#3 TD CAP	0+00 - 40+00	36,260	
CTR DICE 8300E - 10000E	30,920	INCLUDES → 6950	→ 2,000
NORTH TOE 12+00 - 29+50	27,280		
WEST ACCESS 29+50 - 42+75	20,405	INCLUDES → 5175	
EAST ACCESS 9700N - 9930N	2830		
	TOTAL	117,695	

#3 GYP

WEST INTERSECTION	6950
EAST INTERSECTION	10,370
EAST DICE 9700N — WEST DICE 9600N	196 134
GYP TOTAL	<u>213,454</u>

#2 T.F.

90,130

#1 TD (By count)

42,000

TOTAL CUBIC YARDS 463,279

SUMMARY LOAD COUNT EXCAVATION & PLACEMENT

1981

TO →	#3 TP 651 641 633	#2 TP 651 641 633	#3 GYP 651 641 633	#1 TP 651 641 633	TOTAL
DECANT	1157 204 1378	168 0 0	535 41 0	0 0 0	2483
SE	2905 348 317	1837 395 20	0 0 0	0 0 0	5722
NE	709 104 0	2455 190 134	2904 216 0	0 0 0	6742
NW	0 0 0	43 0 0	5258 177 167	0 0 0	5645
#3 GYP	0 0 0	0 0 0	4679 125 540	1844 277 0	7265
#1 TP EAST (9-2, 3, 14) REMOVED	0 0	0 0 0	0 0 0	200 0 330	530

4671 656 695 (6022)	4533 585 154 (5272)	13376 559 707 (13935)	1844 277 330 (2551)	27680
2 10 ³ /yd ³	102374 yd ³	89624 yd ³	236895 yd ³	41667 yd ³ 470560 yd ³

EXCAVATION SCHEDULE

DATE: STARTED	COMPLETION	NO. SHIFTS (REVISED)
DEC/1/81	6/19 (8/6)	22 - 18
SE	7/2	32 - 23
NE	7/15	39 - 27
NW	8/10	36 - 27
#3	8/21	39 - 30

NET CYCLES	LICSE YD ³ VOLUME	INPUT	30% P-A-C-D INPUT
19	97,911	12 AUG —	9000T
30	230,083	10AM — NOON	
35	274,196	2834U 4SEPT NOON	30950T
30	229,588	4SEPT NOON	
37	292,201	27 NOV	33,200T

TOTAL SHIFT WORKED 124

1,123,979

1980 TOTAL 1,924,125

TOTAL LOAD COUNT
ESTIMATED CUBIC YARD VOLUME 468,369 yd³

GYPSUM EXCAVATION DATA (Summer 1980)

5/19/81

633 - 5270³9 641 - 40
651 - 44

LOCATION	MACHINES - LOAD COUNT	TOTAL	DATE EXCAVATED	LOOSE YARDAGE	BUDGET
DECHAT	724 - -	724	28 APR - 2 MAY	23,168	34,000
SOUTHEAST (1)	2921 406 1170	4497	28 APR - 30 JUNY	161,192	165,000
(2)	1244 177 221	1642	15 SEPT - 10 OCT	56,612	
NORTHEAST (1)	2272 2342 2768	7382	28 MAY - 18 JULY	2,081,76	250,000
(2)	601 277 170	1048	20 OCT - 7 NOV	37,792	
NORTHWEST	2119 1461 1548	5128	18 JUNE - 18 AUG	194,360	230,000
#3 GYP	4382 5789 10882	21053	7 JULY - 15 NOV	850,592	370,000
We BORROW	1450 1324 1627	4401	7 JULY - 8 SEPT	170,948	—
EAST BORROW	977 876 1704	3557	11 AUG - 12 SEPT	14,780	—
TOTALS	16690 12652 20090	49432		1,924,120	AUG LOOSE YD ³ 38.9 YD ³ /LOAD

1981 BUDGETED EXCAVATED GYPSUM

LOOSE YD³EXPECTED COMPACTED YD³ @ 17 YD³/CUB.

DECHAT	34,000	16,000
NORTHEAST	250,000 (PRESENTLY 80% FULL)	95,000
NORTHWEST	230,000	85,000
SOUTHEAST	165,000	63,000
#3 GYP	370,000	141,000
	<u>1,049,000</u>	<u>400,000 YD³</u>

243-81

1980 COMPACTED GYPSUM

1980

$$\begin{array}{lll} \#3 \text{ T.P} & 687,451 & \\ \#3 \text{ GYP} & 148,604 & \end{array} \quad > 836,055 \text{ yd}^3$$

<u>BORROW REGIONS</u>	LOOSE YD ³	COMPACTED YD ³
EAST STOCKPILE	141,280	61388
WEST STOCKPILE	170,948	74279
DEZART PANEL	23,168	10067
NW PANEL	194,360	84452
SE PANEL	217,804	94639
NE PANEL	325,968	141637
#3 GYP POND	850,592	369593
TOTAL	1,924,120	836055

$$\text{COMPACTION FACTOR } \frac{836055}{1924120} = 43.45\%$$

GYPSUM AVAILABLE FOR 1981 CONSTRUCTION

$$\begin{array}{r} 836055 \\ - 135667 \text{ (STOCKPILE)} \\ \hline 700,388 \end{array}$$

GYPSUM AVAILABLE FOR TAILINGS POND

$$\begin{array}{r} 700,388 \\ - 150,000 \text{ GYP POND EXTENSION} \\ \hline 550,388 \end{array}$$

WASHINGTON CONST.
LOAD COUNT WEEKLY SUMMARY
STAGE IV-A 1980

#1 CLOSING DAYS (DAYS)	DURATION	#2 GRAIN LOAD SOUTHERN	MATERIAL	#3 DUST	WATER BARRIERS	WATER FARM	SUGAR CUT MATERIAL	WEEKLY TOTALS	ONE SHIFT		FILL PERCENT	
									CLOSING DAYS	PERIOD 1 DAY		
1 20 APR - 2 MAY	1608	729	80					809	214	809		
2 5-9 MAY	1731	866						866	214	732	134%	
3 12-16 MAY	1394	977						977	314	894	83%	
4 19-23 MAY	1869	1535						1535	414	1426	101% 100%	
5 26-30 MAY (CONT'D) 1558	1039 (4497) 527							1566	1 1-30 JUNY 5296 LADS	1623	557% 100%	
6 2-6 JUNE	2410 NO CONSTRUCTION DUE TO WET WEATHER CONDITIONS								0			
7 9-13 JUNE	2610	1029							4	1029 (442)	1538	
8 16-20 JUNE	2934	2038	220						5	2038 (442)	2012	
9 23-27 JUNE	2414	2286	326						5	312	2612	
10 30 JUNE - 4 JULY (CONT'D) 2511	401	1400							4	312	1621	
11 7-11 JULY	2515	1231	1077	1159	120			2053	53	90	2079	
12 14-18 JULY	2413	197 (7382) 1416	1319	329				2240	452	2244 (1670%)		
13 21-25 JULY (CONT'D) 2501	3354	1587	990					2241	5	41	2394 (1724%)	
14 28 JULY - 1 AUG	2297	268	268	1610	829			2242	5	54	2707 (1945%)	
15 4 AUG - 8 AUG	2022	1070 (446)	486	1491	1000			2927	5	305	2987 (2010%)	
16 11-15 AUG	3115	1973	1567	343	265			2693	4 1/2	616	2628 (160%)	
17 18-22 AUG (CONT'D) 1411 1826 (4465) 1765	30 (5128)	1096 (1586)	31	1318	564			1042	5	634	5042 (5055%)	
18 25-29 AUG	2457	1034	198	1025	2457			1-31 AUG	5	274	2130 (3079%)	
19 1-5 SEPT (4465) 215	80	1567	102 (446)	711	2100			2100	4	704	2202 (3222%)	
20 8-12 SEPT	2524	502	692	396 (3246) 35 (446)	10			1647	3 1/2	614	1697 (3457%) (7)	
21 15-19 SEPT	2607	561	1945	155	203			2363	5	671	1653 (3123%) (169)	
22 23-26 SEPT	2529	167	1650	307	2150			2150	4 1/2	1005	1165 (3222%) (7)	
23 29 SEPT - 3 OCT	2024	192 (446)	1572	48	1040	-30 SEPT		2024	4 1/2	444	1233 (3384%) (7)	
24 6 OCT - 10 OCT (CONT'D) 1411 1826 (4465) 1765	650	2336 (446)	650	298 (446)	280			280	2 1/2	98%	1232 (3383%) (7)	
25 12-17 OCT	(REMOVED) (4465) 1765	2336 (446)						236	5	39	236 (3425%)	
26 20-24 OCT	171	501						1183	TOTAL SHIFTS IN 216	3	102	451 (415%)
27 27-31 OCT	126	301	337					744	OPERATION HOURS	2	106	
28 3-7 NOV	19	57 (446)	520					585				
	10-15 NOV											
TOTALS	724	6139	2330	5128	20346	14901	3557	1815	5128			
MULED VIA												
633	124	3165	2973	2119	4202	1350	977	51	192 FEB 15			
641	0	583	2619	4461	5789	1324	876	572	12,223 X 02-57 646			
651	0	391	2939	1598	4887	1477	719	725 (3865)	10,139 X 50 55350			
	714	6189	8330	5128	2033	4401	3557	1813	20,215 X 9,51062			
	152146	15146	174526	144286	2152	170381	144286	144286	144286			

FH0029108

SCRAPER

424 425 426 411 441 432 442 443 445

APR
 28 25 20 20
 26 26 26
 19 11
 59 58
 30 59 60 61
 MAY 1 60 60 51
 2 60 54 59
 ④ ⑥ ⑥
 5 55 54 56
 6 57 63 59
 7 61 67 60
 8 65 69 66
 9 48 48 38
 ③ ⑥ ⑤
 12 RAINED OUT
 13 60 91 106
 14 100 107 114
 15 110 110 113

16 RAINED OUT
 ⑦ ⑦ ⑦

19 RAINED OUT
 20 50 59 35 57 47 50
 21 27 119 89 78 94
 22 22 67 106 91 106 68
 23 25 82 83 16 80 84
 ⑤ ⑥ ① ⑧ ⑥ ⑦ ④
 26 HOLIDAY
 27 57 134 71 98 103 49
 28 48 61 42 46 88 44
 29 66 67 83 82 50
 30 50 70 104
 ④ ⑤ ⑤ ⑧ ⑦ ②

JUNE
 9 RAINED OUT
 10 49 65 10 18 18 18
 18 58 8 63 112 47 95
 11 46 31 116 131 56 89 61
 12 47 107 100 36 92 92
 13 65 63 92 28 18 31 74 95
 1325 1797 1318 903 232 87 860 817 454
 ④ ④ ⑦ ⑥ ⑤ ② ③ ⑦ ⑦

SCRAPER

424 425 426 411 432 441 442 444 445

JUNE
 16 25 105 105 52 94 27 85
 17 50 92 98 53 95 95
 18 48 46 49 47 87 88 2 96
 39 43 35 41 9 95 97 44 8
 19 89 74 120 94 96 38
 ⑦ ⑨ ⑥ ⑧ ⑩ ① ⑦ ① ⑦
 23 63 30 107 101 105 106
 46 46 10 56 12 34 119 111 112
 50 58 101 111 110 108
 17 18 83 53 63 109 109 109
 42 44 47 45 44
 52 56 54 58 57
 ⑦ ⑧ ⑥ ⑦ ⑨ ⑩ ⑩ ⑩ ⑩
 52 50 48 49 48
 14 55 51 56 49 52
 16 8 24 24 25 11 26 11 27
 25 40 11 24 13 26 11
 JULY 1 38 100 98 96 77 104
 2 95 98 104 102 64
 3 4 HOLIDAY
 ① ⑥ ① ⑦ ③ ④ ③ ⑦
 25 24 26 26 27
 54 79 81 78 60 36
 10 11 10 10 11
 63 11 32 20 34 31
 28 23 25 25 24
 10 75 9 82 78 77 84
 74 126 53 63 97 33
 54 55 11 97 97 97
 4 53 85 1 105 117 117 17 17
 7 37 37 37 37 37 37 37 37
 ④ ⑩ ① ⑩ ⑥ ⑥ ⑥ ⑥ ⑥
 46 46 76 79 76 76 76 76 76
 42 25 28 25 25 25 25 25 25
 45 52 51 72 60 72
 6 9 27 31 31 31 31 31 31
 71 47 51 51 51 51 51 51 51
 18 18 18 18 18 18 18 18 18
 48 52 51 51 51 51 51 51 51
 110 105 109 110 110 110 110 110 110
 ② ④ ③ ⑧ ⑧ ⑦ ⑥ ⑥ ⑥ ⑥ ⑥
 65 120 125 131 98 3
 50 129 112 125 107
 73 109 109 109 109 109 109 109 109
 42 42 105 109 99 45 45
 55 12 12 12 12 12 12 12 12
 54 53 57 57 57 57 57 57 57
 97 55 60 61 61 61 61 61 61
 28 17 87 89 97 97 97 97 97
 19 43 43 43 43 43 43 43 43
 703 2129 1197 2509 2609 2609 2609 2609 2609
 ④ ⑥ ⑦ ⑩ ⑩ ⑩ ⑦ ⑦ ⑦

SCRAPER #
424 425 426 411 432 441 442 444 445

July
28 43 17 26 4 25 10 27
51 40 67 56 66 12 75
29 2 53 62 15 51 7 57
30 51 46 52 46 51 9
13 46 14 109 93 100 24 47
31 30 19
AUG 1 105 47 70 81 64 74 30
④ ③ ⑥ ⑦ ④ ⑧ ⑩ ③ ⑥
4 45 49 130 129 132 79
55 31 30 31 35 10
5 67 44 87 85 63 18 17 31
76 47 42 21 22 23
6 94 53 98 52 21 34
76 47 42 21 22 23
7 6 26 4 15 42 37 44
64 1 1 6 1 1
8 11 28 43 43 35 42 17
④ ① ⑧ ⑨ ⑩ ⑦ ⑥ ③ ⑥
11 99 61 39 39 70 40 36
12 50 46 46 50 113 51 50 57 70
13 86 92 78 78 61 61 61 77
14 52 60
15 45 3 38 94 95 45 45
① ⑨ ⑥ ⑦ ⑨ ⑤ ⑥ ⑥ ③
16 16 16 16 16 16 16
32 100 83 79 26 76 83 98
19 15 93 23 59 41 54 31
20 29 52 62 56 1 59 15 92
60 42 108 108 32 61 115 78
21 52 63 5 57 17 67
22 34 41 40 40 57 37 61
10 67 57 61
23 83 73 71 69 73
49 46 14 47 47 33
30
24 80 37 6 78 112 105 105
103 33 45 45 45 45
28 73
29 ⑧ ③ ④ ⑨ ⑫ ⑬ ⑤ ⑦ ⑪ ⑫ ⑯
JULY
1 95 101 78 79
2 44 99 100 47 56
3 102 95 21 23 22
86 50 51 79 21
4 80 32 33 30 32
5 65 52 77 79 48 44
72
118 932 1239 2019 2292 1710 253 1589 1882
⑤ ④ ⑩ ① ⑤ ⑧ ⑨ ⑥ ⑦ ⑤

SCRAPER #
424 425 426 411 432 441 442 444 445

Sept
8 24 58 56 29 34 52
91 42 43 42 93 25
9 25 74 59 76 11 94 25
10 111 105 48 42 45
35 35 15 34
11 15
12 ⑥ ② ② ⑥ ⑤ ⑥ ① ⑤ ②
132 56 50 14 60 9
10 18 39 8 20
25 59 68 131 78
16 91 28 115
51 47 14 121 81 87 27
17 93 64
17 31 52 65 25 26 17
18 29 66
40 81 91 10 52 122
19 ⑨ ③ ④ ⑥ ③ ⑦ ⑧ ⑧ ①
20 55 54 124 119 28
62 17
17 59
18 115 12 65
23 80 31 12 21 44 47 69
24 58 56
69 3 119 " 117 720 1
25 51 118 91 111 21
26 ⑦ ⑥ ④ ① ④ ⑥ ⑨ ⑨ ④
13 107 59 64 95
29 54 87 101 59 47 72
30 52 24 79 109 112 34
Oct 1 46 33 14 44 35 29
2 55 58
41 51 47 11 43
3 38 41 ⑦ ⑥ ① ⑤ ③
⑥ ⑩ ⑧ 15 12 11
6 66 69 5 50 58 53
7 20 22 57 12 51 57
8 30 30 10 1 51 54 45
9 30 30 45 45 46
10 43 21 ④ ⑥ ④
13 40 39 51 54 7
14 ① ⑥ ① ② ① ④ ③ ③
15
16
17
156 146 149 61 102 1282 1191 1581 672

" A 1 S'

101 425 426 411 432 441 442 444 445

Oct

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Nov

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TOTAL # LOADS 408 521 455 340 2160 2480 1630 849 1611
 TGS. 1 LOADS 218 110 108 108 351 342 351 316 251
 TGS. 2 LOADS 158 621 588 13 220 0 120 104 69
 TGS. 3 LOADS 158 621 588 13 220 0 120 104 69

AVERAGE
NO. SHIFTERS
PER SHIFT

TOTAL # LOADS 5356 5610 5829 6010 6200 5180 5100
 TOTAL # SHIFTS 117 116 120 130 125 111 109 83 100

Total # Shifts = 117
 Total # Shifts = 1023 ÷ 216 = 4.74

TOTAL # LOADS/SWIFT

424 425 426 411 432 441 442 444 445

Ave. # LOADS/SWIFT = 48

Ave # LOADS /SWIFT = 50.75

Ave # LOADS/SWIFT = 49.38

Volume Summary

#3TP #3GY

#3TP 0+00 - 41+80

606,026

606,026

#3GYP 3 51065 SINCE REMEASURE AUGUST

76,485

76485*

#3GYP PRIOR TO REMEASURE

60,268

60268

CENTER DIKE 2+00 - 18+00

79,434

69368 10066

NW CORNER GYP 96CON - 0.1G

5478

5478

NE CORNER GYP 97CON - 0.1G

3613

3613

NE DiAG - STA 2+00 CTR DIKE

7649

6680

969

NW DiAG - STA 18+00 CTR DIKE

7574

6614

960

TOTAL VOLUME PLACED

846,527

(1) 688,688 (1) 157,839
(1) 149,891

*INCLUDES WIDENING

SEGREGATED VOLUMES#3GYP PORTION CTR DIKE

STA 2+00 - 18+00

10066

NW DiAG - STA 18+00

7649~~1,1267~~ = 969

NE DiAG - STA 2+00

7574~~1,1267~~ = 960

11,995

(1) BULK VARIANCE#3GYP WIDENING SOUTH
AND WEST DIKE7948 YD³NET VOLUME DISCOUNTING
THE WIDENING

846,527

- 7948

838,579

$$\frac{10066}{7948} \times 100 = 12.67\%$$

VOLUME SUMMARY

#3TP #3GY

#3TP 0+00 - 41+80	606,026	606,026
#3GY AUGUST 3 SIDES SINCE REMEASURE	76,485	76485*
#3GY PRIOR TO REMEASURE	60,268	60268
CENTER DIKE 2+00 - 18+00	79,434	69368 10066
NW CORNER GYP 96CON - DING	5478	5478
NE CORNER GYP 97CON - DING	3613	3613
NE DING - STA 2+00 CTR DIKE	7649	6680 969
NW DING - STA 18+00 CTR DIKE	7574	6614 960
TOTAL VOLUME PLACED	846,527	(1) 688,688 157,839
	(1) 838,579	686,214 (1) 149,891
	833,531	147,317
SEGREGATED VOLUMES	836,055	687,451 148,604

#3GY PORTION CTR DIKE

STA 2+00 - 18+00	10066
NW DING - STA 18+00	7649 x .1267 = 969
NE DING - STA 2+00	7574 x .1267 = 960
	11,995

* INCLUDES WIDENING
(1) BULK YARDAGE

#3GY WIDENING SOUTH AND WEST DIKE7948 YD³NET VOLUME DISCOUNTING
THE WIDENING

$$\begin{array}{r} 846,527 \\ - 7948 \\ \hline 838,579 \end{array}$$

$$\frac{10066}{79484} \times 100 = 12.67\%$$

MEETING: REVISIONS, MARZA, WILLACO 21 NOV 1980 (THURS)

#3 T.P. Bulk Avg 687,451 X 2.27

#3 GYP Bulk Avg 148,604 X 1.76

TOTAL 836,055

$$\text{TOTAL LOADS } \frac{836055}{48576} = 17.21$$

$$\text{SUB-X TP } 17.2113 \times 1546 = 26609 \text{ YD}^3$$

$$\begin{aligned} \text{SUB-X GYP} & 17.2113 \times 41 = 706 \text{ YD}^3 \\ \text{WIDOWING GYP} & 17.2113 \times 797 = 13717 \text{ YD}^3 \end{aligned} \quad \left. \begin{array}{l} \\ \end{array} \right\} 14423$$

Σ YARDAGE

$$\text{TP } 714060 @ 2.27 = \$1,620,916.20$$

$$\text{GYP } 163027 @ 1.76 = 286,927.52$$

$$\underline{877087} \quad \begin{array}{l} 1,907,843.72 \\ \searrow \quad \rightarrow \text{AUG } \$2.175/\text{YD}^3 \end{array}$$

SALEM BY LOAD COUNT 927576

$$\Delta = 50,489$$

GYP

$$\begin{array}{r} \text{OWE } \$286,927.52 \\ \text{PD 30 SEPT } 202303.20 \\ \hline \text{NET DUE } 84,624.32 \end{array}$$

T.P.

$$\begin{array}{r} 1,620,916.20 \\ 1475500.00 \\ \hline 145,416.20 \end{array}$$

TOTAL NET DUE

$$230,040.52$$

TOTAL SHIFTS WORKED 216

$$\frac{\text{YD}^3}{\text{SHIFT}} = \frac{877087}{216} = 4060$$

	DECANT	SE	NE	NW	W. BORROW	E. BORROW	#3 EAST (EST)	SECOND TIME SE	SECOND TIME NE	#3 GYP
633	724	2921	2272	2119	1450	977	402	1244	601	3955
641		406	2342	1461	1324	876	67	177	277	5722
651		1170	2768	1548	1627	1704	338	221	170	10544
TOTAL LOADS	724	4497	7382	5128	4401	3557	807	1642	1048	20221
YD ³	23,168	16,192	288,176	194,360	170,948	141,280	30,416	56,612	37,792	819376

YD³/LOAD 32 35.84 39.04 37.90 38.84 39.72 37.69 34.48 36.06 40.52



Took 922 LOADS (633)
FM NW LAD OCT
(29504)
TOTAL VOL: 223,864 YD³

LOOSE YD³ VIA LOAD COUNT THRU OCTOBER 17 - 1837708 YD³ (46923 LOADS)
AVG 39.16 YD³/LOAD

POND EXCAVATION SUMMARY

		Sub Out
633	16665	568
641	12652	487
651	20090	753
	49407	1800

1718 #3TP
82 GYP

LOOSE
YARDAGE 1,923,820 YD³

YD³/LOAD 38.93

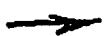
#3 GYP

	<u>633</u>	<u>641</u>	<u>651</u>
11	419	388	352
12	286	472	561
13	65	807	675
14	205	535	870
15	0	688	753
16	50	700	817
17	100	356	590
18	164	163	707
19	0	217	1090
20	155	200	337
21	435	452	1058
22	206	237	1213
23	387	349	836
24	146	55	453
25	73	54	109

70	2691	5673	10421	402	67	338
		771556			30416	

26	329	49	123
27	397		
28	538		

3955 5722 710544



TOTAL COUNTS

20221

YARDAGE 819376